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中国日萤叶甲属四新种

（鞘翅目：叶甲科，萤叶甲亚科）

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本文记述萤叶甲亚科日萤叶甲属 *Japonitata* Strand 四新种，分别采自西藏墨脱地区、湖北神农架、云南西双版纳等地。模式标本分别保存在中国科学院动物研究所和上海昆虫研究所。

红日萤叶甲 *Japonitata ruficollis* 新种

棕红色；腹面棕黄；触角黄色，端末1节或2节黑色。

头部光亮，上唇较小，宽约为长的1.5倍，前缘完整，表面中部有一排具刚毛的刻点；额唇基呈三角形隆凸，无刻点；额瘤较平，不甚显突，横形，前内角向触角间延伸；头顶微凸，无刻点。触角微短于体长，第2节短小，第3节略短于第2节的两倍，第4节明显长于第3节，第5节约等于或短于第4节，5—8节约等长，有时端末三节或四节稍长，有时稍短。前胸背板宽约为长的1.7倍，两侧缘较直，向基部收狭，有时不很明显，基缘一般平直，有时中央略凹进；盘区光亮，几无刻点，中部两侧各有一个近圆形凹洼。小盾片三角形，顶端稍圆。鞘翅基部远宽于前胸背板，肩胛显突，肩胛之后有一条明显的纵脊线，此脊未达翅端，每翅紧靠中缝另有一条脊线；翅面刻点极细，不显，翅基部明显隆凸，其后又清楚地凹洼。雌虫腹末节顶端完整。

体长：5.5—6毫米；体宽：2.8—3毫米。

正模♀，西藏墨脱背崩，800—900米，1982. V. 15，韩寅恒。副模1♀，同上；1♀，800—1000米，1982. VII. 10；4♀♀，墨脱卡布，1050—1200米，1980. V. 9—10，金根桃、吴建毅。

本种棕红色，易与属内鞘翅肩胛之后仅具一条纵脊线的种类相区分。

黄腹日萤叶甲 *Japonitata abdominalis* 新种

体较小，黑褐至黑色，触角酱色，腹部黄色。

上唇宽大于长，前缘中央微凹缺，表面近基部有一排稍长毛；额唇基隆突较高，呈三角形；额瘤明显，高凸，斜放，外端狭；头顶光亮，微凸，具极细刻点，中央有一条清晰的细纵沟。触角约为体长之半，每节均被毛，但第1节的毛极稀少，光亮，第2节短，长宽约相等，第3节约为第2节的两倍，第4节短于第3节，从第5节开始，向端部逐渐增粗，第5节短于第4节，6、7两节约等长，微短于第5节，第8节稍短于第7节，第9节短，长宽约相等，

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其外端角向前方强烈伸突，伸突部分的顶端有一个微小的球状物，第 10 节宽微大于长，末节粗长，略长于前三节之和(图 1)。前胸背板宽略小于长的两倍，前端宽，向基部收狭；盘区刻点很细，基部 2/3 区域为一大凹洼。小盾片三角形，光亮无刻点。鞘翅基部远宽于背板，肩胛十分显突，有两条非常锐利的纵脊线始于此，外侧一条靠近翅外缘，伸达鞘翅端前，内侧一条稍短，伸至鞘翅端前 1/3，两脊之间略凹洼，此区域刻点稍密，微显皱折；翅面在基部微隆凸，其后凹洼，端末又微隆起，翅面刻点细密，在端部隆起部分更细。后足第 1 跗节约等于其余三节之和。

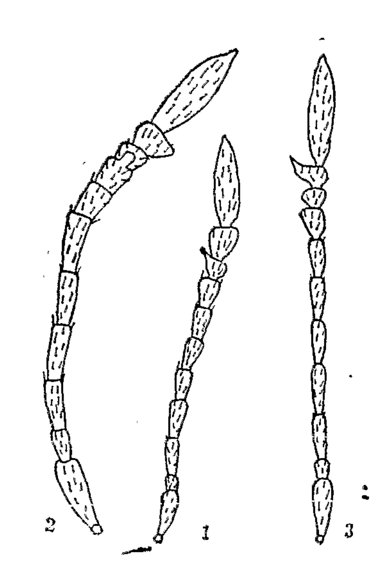


图 1—3 三种日萤叶甲雄虫触角
1. 黄腹日萤叶甲 *Japonitata abdominalis* sp. nov. 2. 显角日萤叶甲 *J. antennata* Chen et Jiang 3. 红坪日萤叶甲 *J. hongpingana* sp. nov.

体长：3.3—3.5 毫米；体宽：2 毫米。

正模♂，西藏墨脱，750—1050 米，1983. II. 2，林再。副模♂，西藏墨脱卡布，1050 米，1980. V. 9，金根桃、吴建毅。

本种与 *J. antennata* Chen et Jiang 近似，主要区别是本种雄虫触角第 8 节正常，第 9 节外端角强烈伸突，顶端有一球状物；而该种触角和足的颜色较淡，触角第 8 节顶端外侧有一片状突起，第 9 节正常，第 10 节顶端呈角状向外伸突（图 2），据此可清楚地将二者分开。

红坪日萤叶甲 *Japonitata hongpingana* 新种

栗色，具金属光泽；触角(端末四节褐色)和足烟色。

额唇基隆起较宽，后半部中央有纵沟与额瘤间的纵沟相连；额瘤较明显，近三角形，表面具细皱纹；头顶微凸，中央的细纵沟不十分清楚，隐约可见。触角端末四节较粗，第 3 节微短于第 2 节的两倍，第 4 节约等于第 3 节，5、6 两节略短于前两节，第 7 节明显短于第 6 节，第 8 节稍短于第 7 节，但较粗，第 9 节很短，宽略大于长，第 10 节长度约等于第 9 节，顶端外侧尖锐地向外前方伸突，末节棒状，约等于前四节之和（图 3)。前胸背板宽大于长的两倍，两侧缘向基部略收狭，基缘向后弧拱；盘区较低，中部之前中央有一个近圆形小凹洼，中部两侧各具一个较大的横凹；表面刻点不清楚。鞘翅刻点极细，每翅有两条锐利的纵脊线，外侧一条长，从肩胛开始，向后伸至鞘翅端前，内侧一条较短，中部弯曲。

体长：3.2 毫米；体宽：2 毫米。

正模♂，湖北神农架红坪，1600 米，1980. VII. 13，虞佩玉。

本新种与显角日萤叶甲 *J. antennata* Chen et Jiang 近似，但区别明显，本种触角第 8 节端部无片状突，第 10 节顶端的角状突更甚；外生殖器阳茎较近似，但本种三叉形的中突端部平截，而该种为圆形(图 4，5)。与 *J. abdominalis* 也较近似，区别在于本种雄虫触角第10节端部外侧向外前方强烈伸突，第 9 节正常；而该种第 9 节外端角强烈伸突，第 10 节正常。

半黄日萤叶甲 *Japonitata semifulva* 新种

头(上唇烟色)、触角、前胸以及足腿节棕黄色；小盾片、鞘翅和跗节酱褐色，胫节淡褐，腹部黄色。

额唇基隆凸明显，略近三角形；额瘤较小，不甚显突，近似半圆形；头顶微突，光亮无刻点，中央有一条浅细纵沟，与额瘤间的短纵沟相连。触角丝状，第 2 节短小，第 3 节约为第 2 节的三倍，第 4 节微短于第 3 节，第 5 节稍短于第 4 节，6—8 节约等长，略短，端末三节微长。前胸背板宽约为长的 2.5 倍，两侧缘较平直，前缘微凹进，基缘略向后弧拱，表面大部分区域凹洼，仅前缘和前角之后隆突，此区域具细小刻点。小盾片三角形，端末切平，表面光亮无刻点。鞘翅表面粗糙，刻点粗密，密布皱折和较稀的短卧毛；每翅外侧(从肩胛后缘开始)有一条锐利显突的纵脊线。雄虫阳茎端部较尖，端部之后每侧各有一个片状突(图 6)。

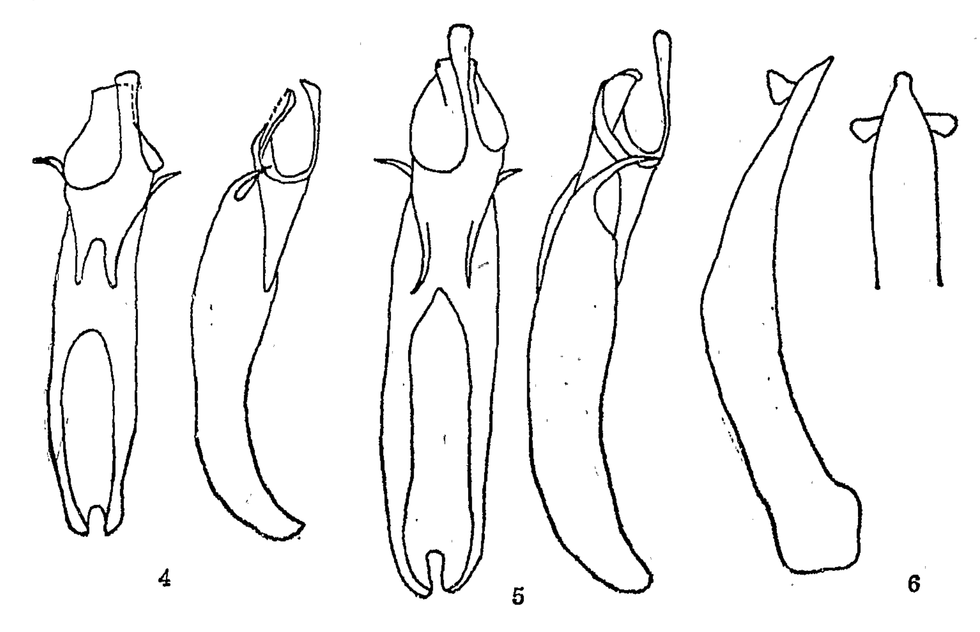


图 4—6　三种日萤叶甲雄虫外生殖器阳茎
4.红坪日萤叶甲 *Japonitata hongpingana* sp. nov.　5.显角日萤叶甲 *J. antennata* Chen et Jiang
6.半黄日萤叶甲 *J. semifulva* sp. nov.

体长：4.5 毫米；体宽：2.4 毫米。

正模♂，云南西双版纳勐宋，1600 米，1958. IV.27，王书永。

本种与皱鞘日萤叶甲 *J. rugatipennis* Chen et Jiang 近似，主要区别是本种个体较小，触角淡色，端末数节未膨粗，鞘翅表面的卧毛较稀；该种触角褐色，端半部较粗，鞘翅表面的卧毛较短密。

FOUR NEW CHINESE SPECIES OF JAPONITATA (COLEOPTERA: CHRYSOMELIDAE, GALERUCINAE)

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This paper reports four new species of *Japonitata* Strand, collected from Xizang, Hubei and Yunnan. The type specimens are kept in the Institute of Zoology, Academia Sinica, Beijing and Institute of Entomology, Shanghai.

Japonitata ruficollis sp. nov.

Reddish-brown; underside yellowish-brown; antenna flavous with black terminal segment.

Frontoclypeus slightly raised, impunctate; antenna slightly shorter than the body, second segment very small, third shorter than twice as long as second, fourth distinctly longer than third, fifth to eighth about equal in length. Pronotum about 1.7 times as broad as long, disc almost impunctate, foveolate on each side of middle. Elytra obviously wider than pronotum at base, humeral callus strongly raised, with a distinct humeral costa and a parasuture costa, very finely and indistinctly punctate.

Length: 5.5—6 mm., breadth: 2.8—3 mm.

Holotype ♀, Xizang: Medog beibeng, 800—900 m, 15. V. 1982. Paratypes 1♀, ditto; 1♀, 800—1000 m, 10. VII. 1982; 4♀♀, Medog kabu, 1050—1200 m, 9—10. V. 1980.

Easily distinguished from its congeners with a single humeral costa by reddish-brown colour.

Japonitata abdominalis sp. nov.

Piceous to black, antenna piceous, abdomen flavous.

Frontoclypeus triangular, strongly raised; frontal tubercles evident, oblique; occiput smooth, slightly convex, very finely punctate. Antenna 1/2 as long as body, second segment small, as broad as long, third twice as long as second, fourth shorter than third, from fifth to terminal segment slightly thickened, fifth shorter than fourth, sixth and seventh about equal, ninth small, as broad as long, with strongly producted exterior terminal angle, of which a knob at the tip (fig. 1). Pronotum about twice as broad as long, very finely punctate, basal 2/3 concave. Elytra obviously wider than pronotum at base, rather finely and closely punctate; humeral callus strongly raised, each elytron with two quite sharp humeral costae, of which interspace slightly depressed and rugulosus.

Length: 3.3—3.5 mm., breadth: 2 mm.

Holotype ♂, Xizang: Medog, 750—1050 m, 2. II. 1983. Paratype 1♂, Medog kabu, 1050 m, 9. V. 1980.

Resembling *J. antennata* Chen et Jiang in general appearance, but differs in the colour of antenna and legs, form of terminal 8—10 segments of antenna (fig. 2).

Japonitata hongpingana sp. nov.

Castaneous, shining; antenna (terminal 4 segments brown) and legs smoky.

Front tubercles slightly raised, finely rugulosus. Antenna third segment shorter than twice

as long as second, third and fourth about equal in length, fifth and sixth slightly shorter than fourth, seventh distinctly shorter than sixth, ninth very small, slightly broader than long, tenth about equal to ninth in length, with strongly produced exterior terminal angle (fig. 3). Pronotum more than twice as broad as long, disc indistinctly punctate, with a weak depression before the middle and a transverse depression on each side of middle. Elytra very finely punctured, each with two sharp humeral costae.

Length: 3.2 mm., broadth: 2 mm.

Holotype ♂, Hubei: Hongping, 1600 m, 13. VII. 1980.

Allied to *J. antennata* Chen et Jiang and *J. abdominalis* in ♂, but differs from the former in the form of antenna and genitalia (figs. 4, 5) and from the latter in the form of 9—10 segments of antenna.

Japonitata semifulva sp. nov.

Head, antenna, prothorax and femora yellowish-brown; scutellum, elytra and tarsi piceous, tibia pale piceous, abdomen flavous.

Frontoclypeus rather strongly raised, nearly triangular. Antenna filiform, second segment very small, third about 3 times as long as second, fourth slightly shorter than third, fifth slightly shorter than fourth, sixth to eighth nearly equal in length. Pronotum about 2.5 times as broad as long, anterior margin slightly concave, basal margin convex, lateral margin rather straight; surface depression mostly, finely punctured on the anterior part. Scutellum triangular, impunctate. Elytra coarsely and closely wrinkled, with a quite sharp humeral costa. Apex of aedeagus rather acute (fig. 6).

Length: 4.5 mm., breadth: 2.4 mm.

Holotype ♂, Yunnan: Mengsong, 1600 m, 27. IV. 1958.

Related to *J. rugatipennis* Chen et Jiang, but differs in the smaller size and pale antenna and rather sparse elytral hairs.